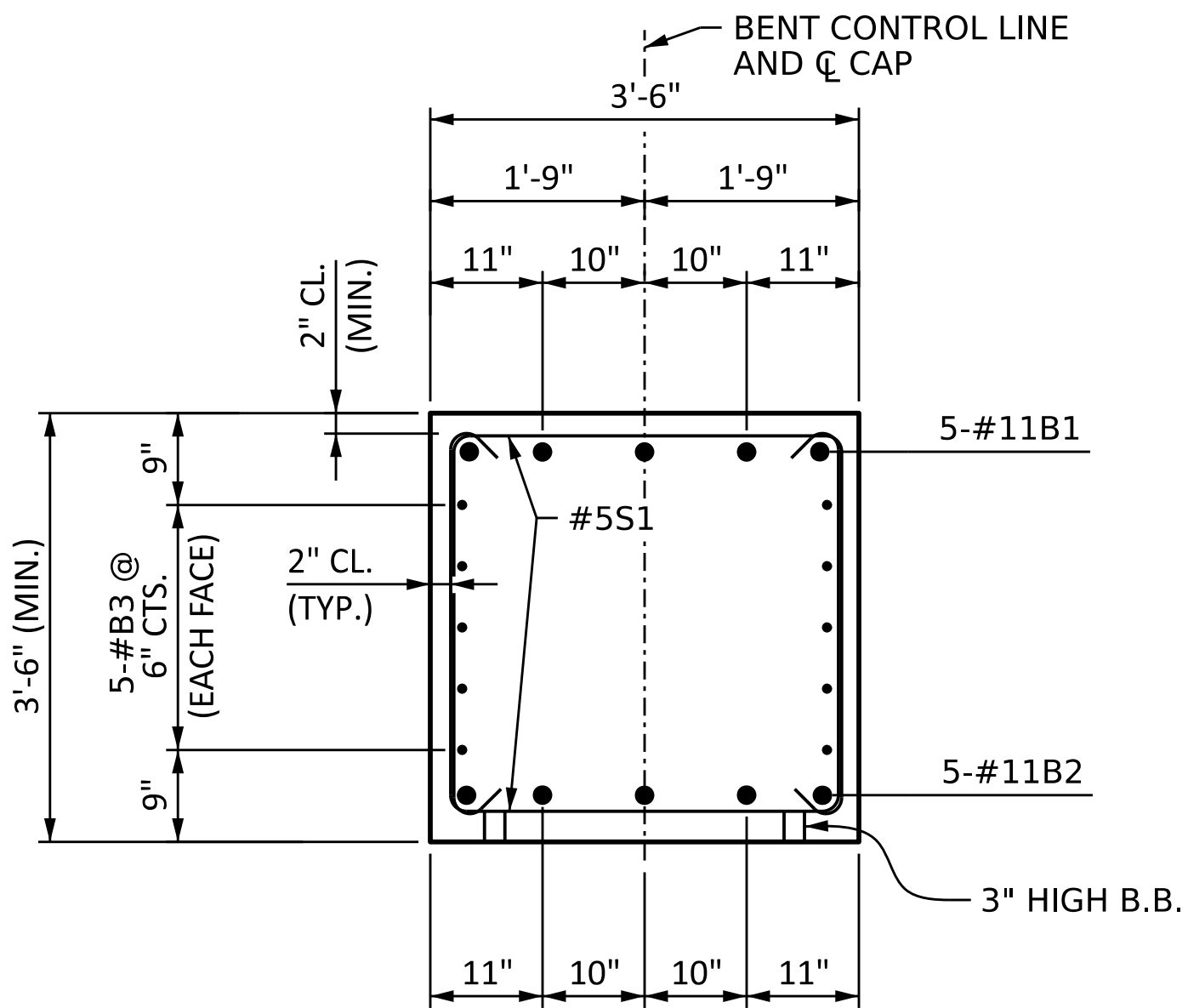
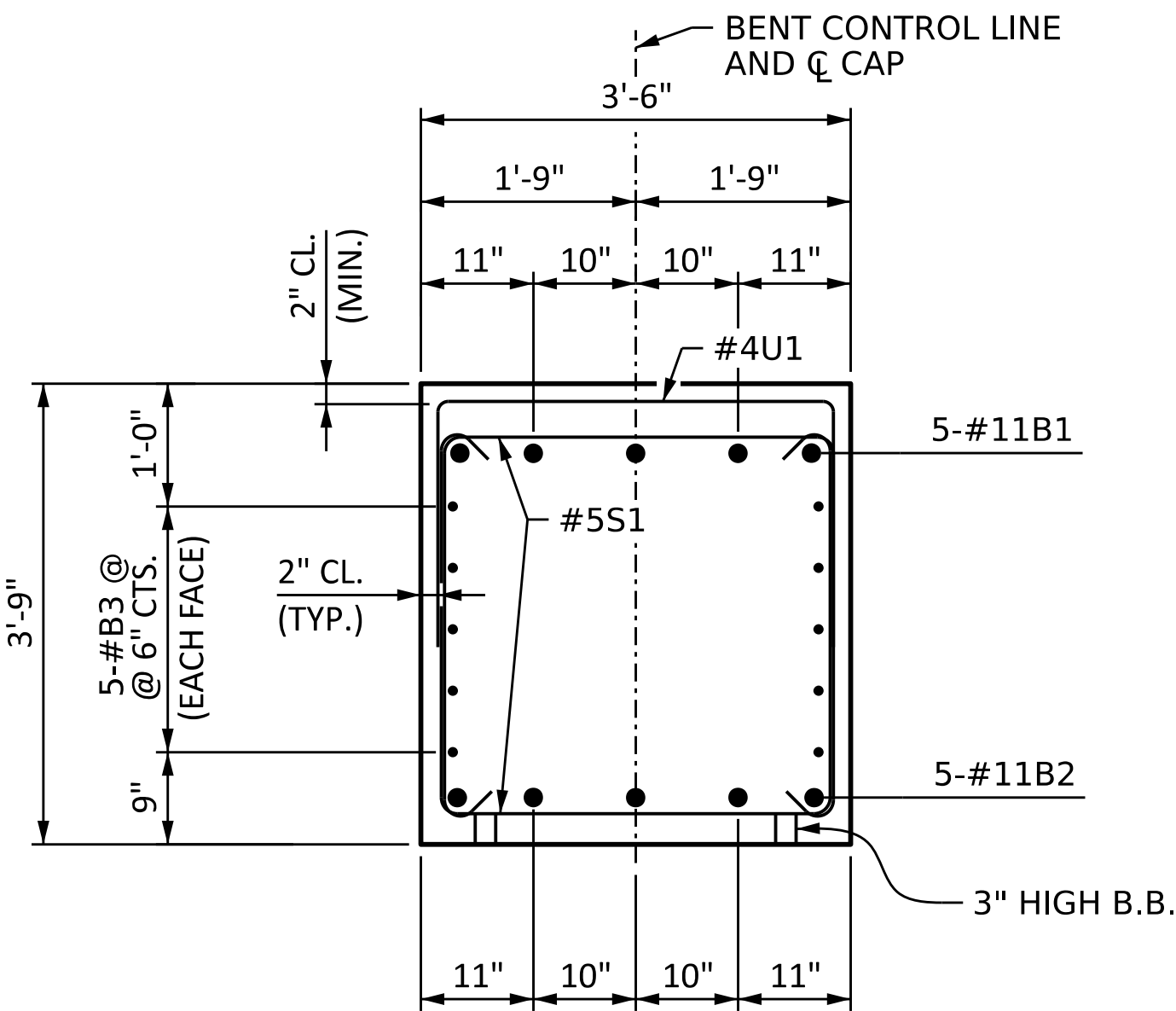
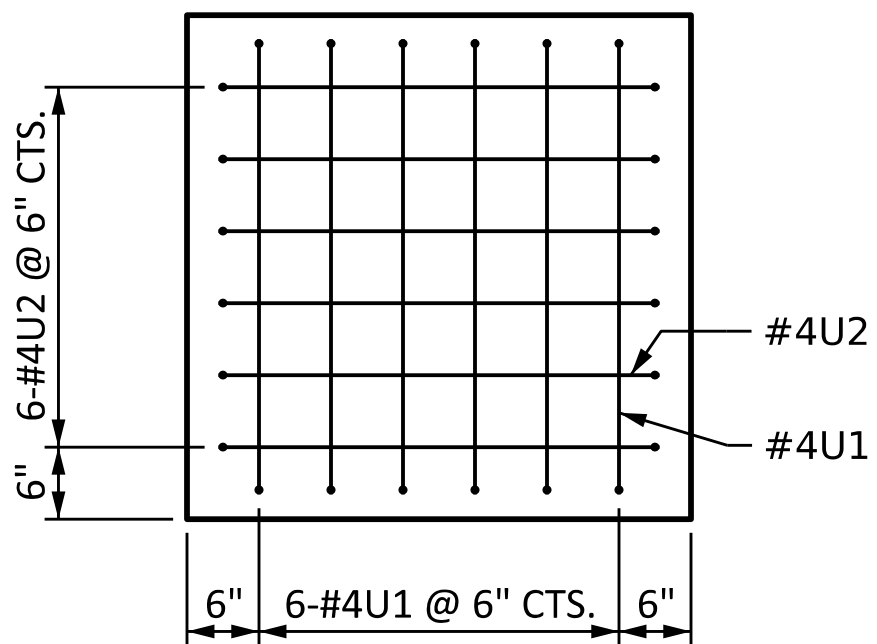




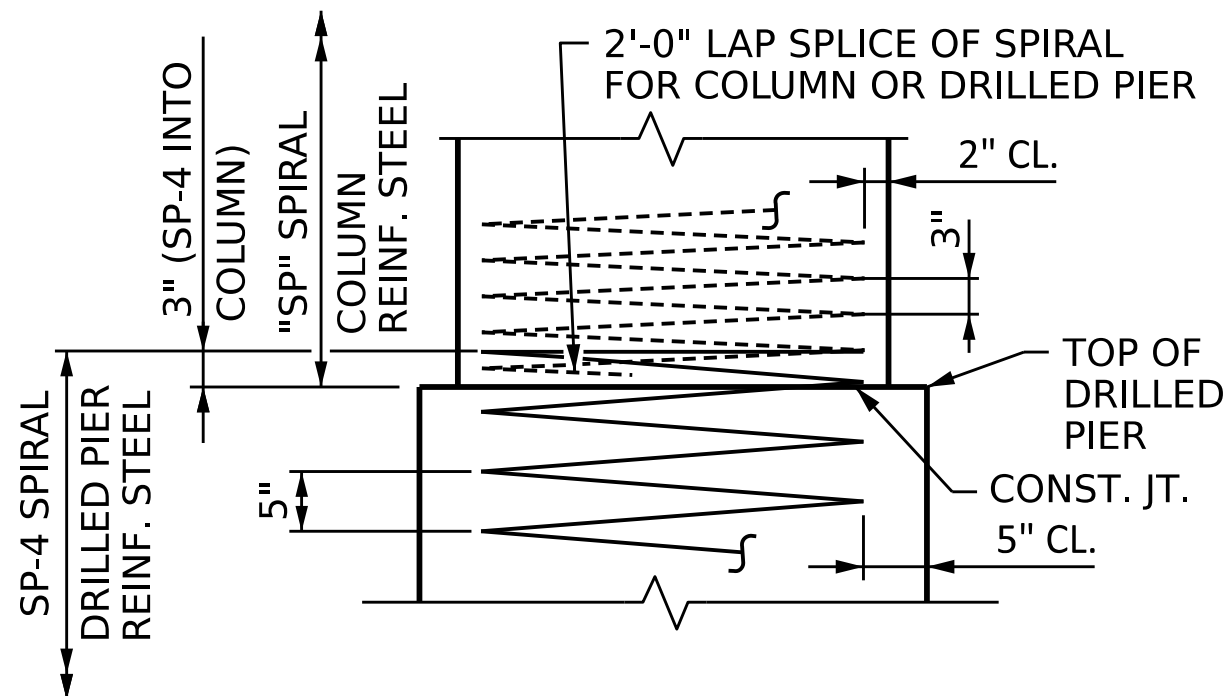
SECTION A-A



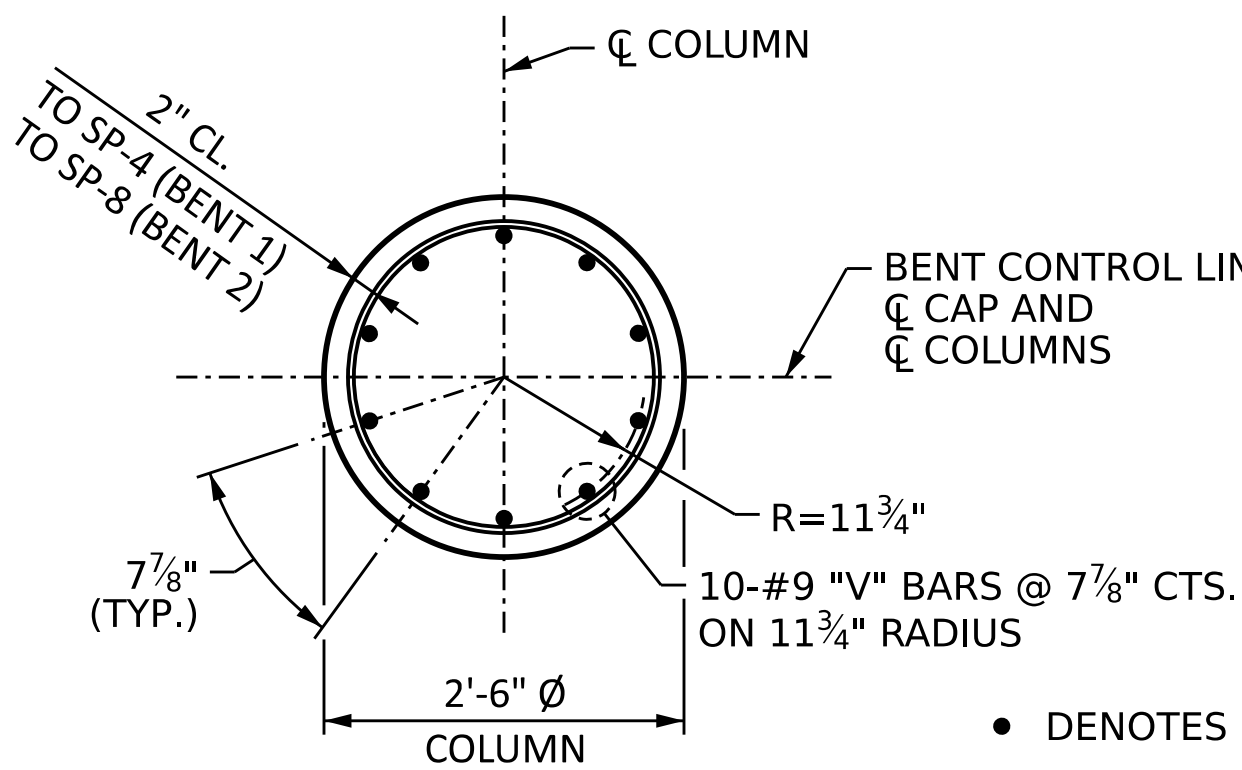
SECTION B-B



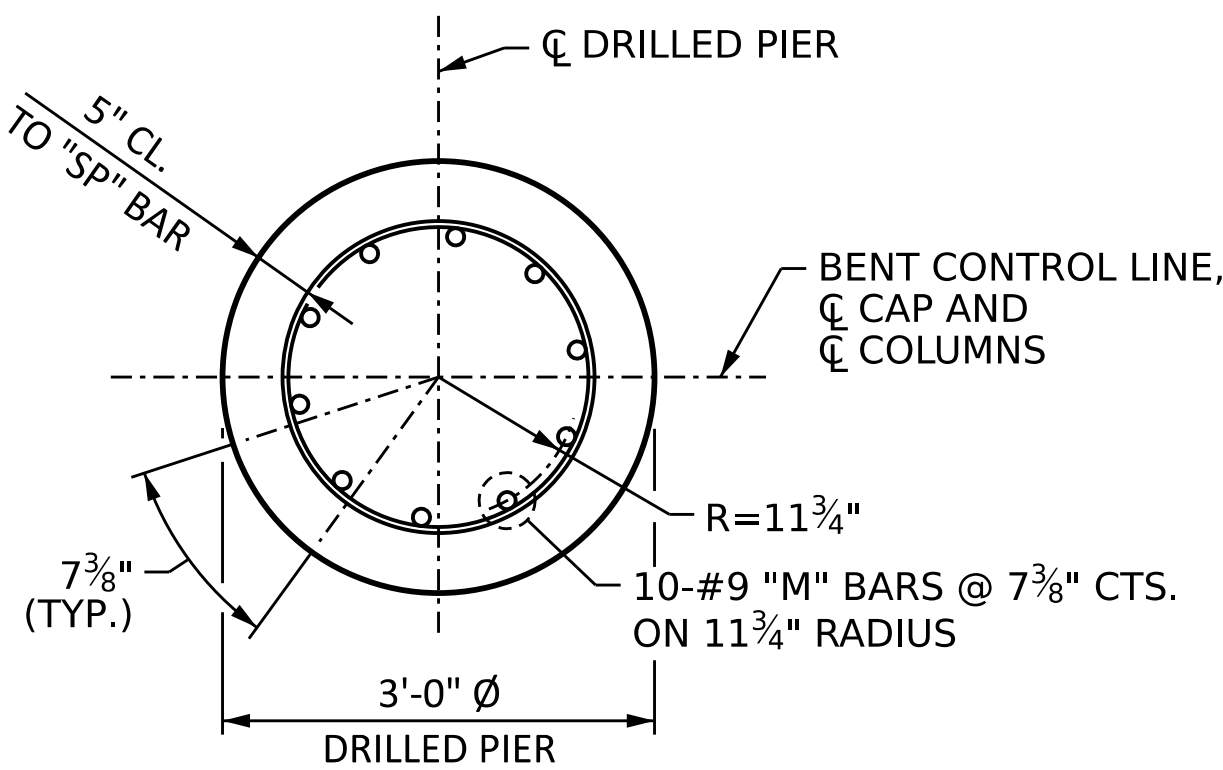
VIEW X-X



CONSTRUCTION JOINT DETAIL



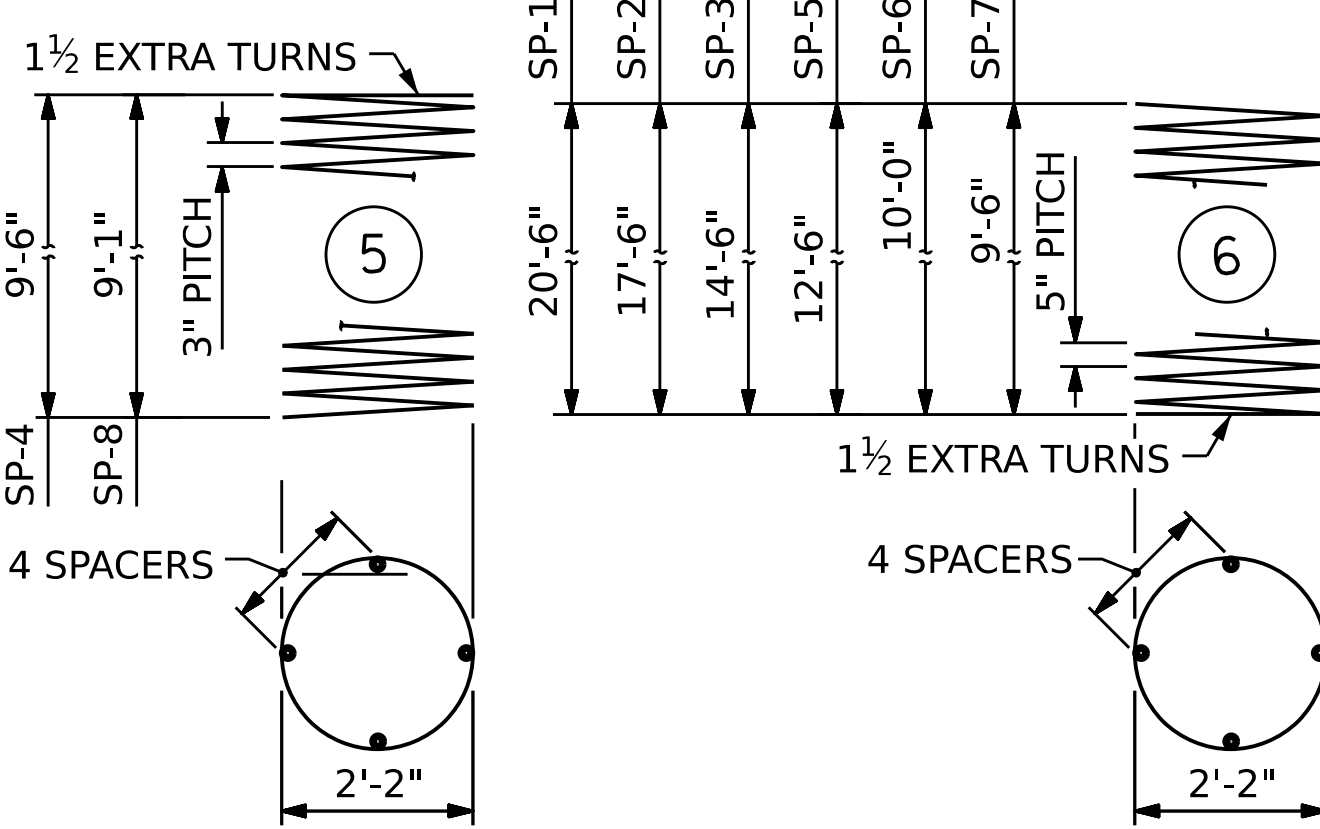
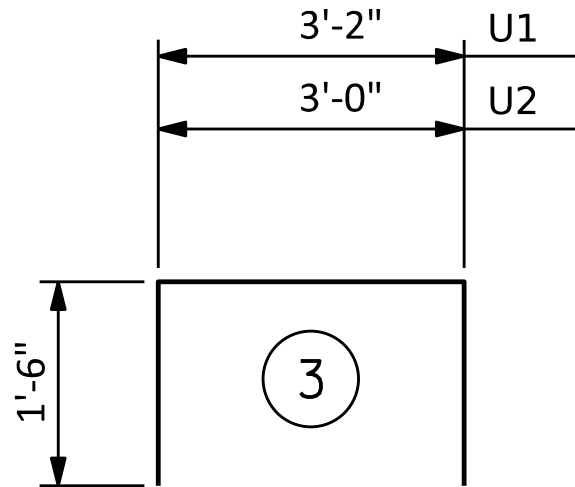
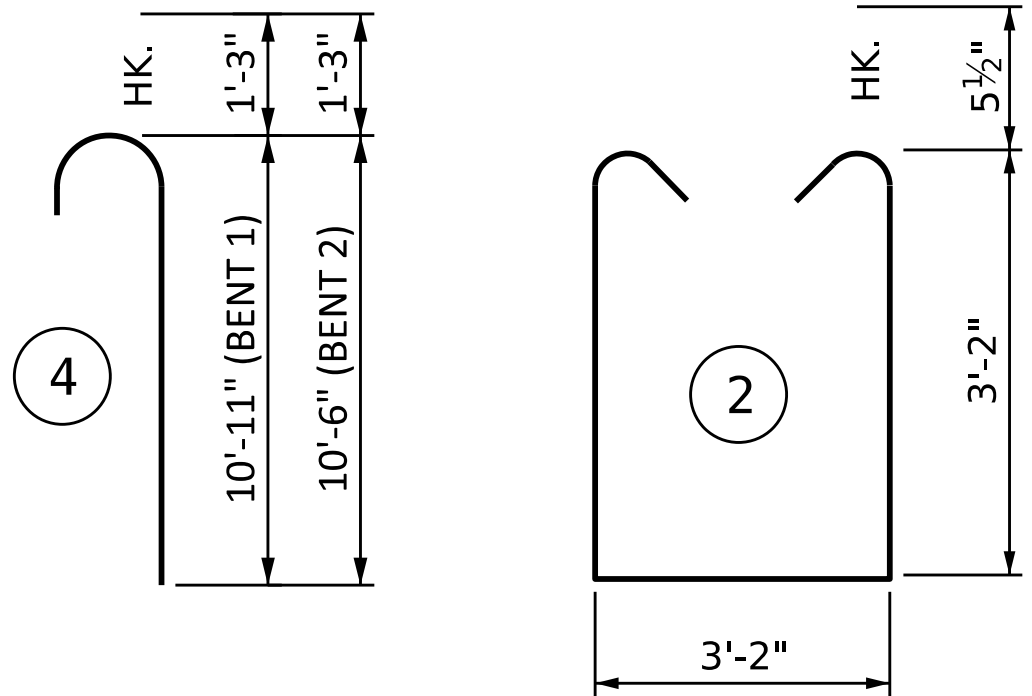
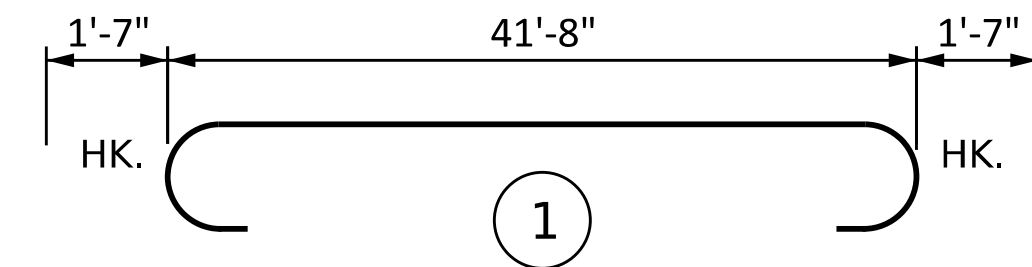
SECTION C-C



SECTION D-D

DESIGNED BY: J. WHEATLEY DATE : MAY 2024
DRAWN BY: M. HOBBS DATE : MAY 2024
CHECKED BY: E. LAWES DATE : MAY 2024
DESIGN ENGINEER OF RECORD: E. LAWES DATE : MAY 2024

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

BENT 1						BENT 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	5	#11	1	44'-10"	1191	B1	5	#11	1	44'-10"	1191
B2	5	#11	STR	41'-8"	1107	B2	5	#11	STR	41'-8"	1107
B3	10	#5	STR	41'-8"	435	B3	10	#5	STR	41'-8"	435
M1	10	#9	STR	27'-7"	938	M4	10	#9	STR	19'-7"	666
M2	10	#9	STR	24'-7"	836	M5	10	#9	STR	18'-1"	615
M3	10	#9	STR	21'-7"	734	M6	10	#9	STR	16'-7"	564
S1	78	#5	2	10'-5"	847	S1	78	#5	2	10'-5"	847
U1	44	#4	3	6'-2"	181	U1	44	#4	3	6'-2"	181
U2	12	#4	3	6'-0"	48	U2	12	#4	3	6'-0"	48
V1	30	#9	4	12'-2"	1241	V2	30	#9	4	11'-9"	1199
REINFORCING STEEL						REINFORCING STEEL					
7,558						6,853					
SP-1	1	*	6	349'-10"	365	SP-5	1	*	6	220'-3"	230
SP-2	1	*	6	302'-1"	315	SP-6	1	*	6	193'-0"	201
SP-3	1	*	6	254'-4"	265	SP-7	1	*	6	172'-6"	180
SP-4	3	**	5	272'-6"	546	SP-8	3	**	5	258'-10"	519
SPIRAL COLUMN REINFORCING STEEL						SPIRAL COLUMN REINFORCING STEEL					
LBS. 1,491						LBS. 1,130					
* THE SPIRAL SP-1, SP-2 & SP-3 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.						* THE SPIRAL SP-1, SP-2 & SP-3 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.					
**THE SPIRAL SP-4 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.						**THE SPIRAL SP-4 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.					
CLASS "A" CONCRETE BREAKDOWN						CLASS "A" CONCRETE BREAKDOWN					
POUR #2 - COLUMNS						POUR #2 - COLUMNS					
POUR #3 - CAP						POUR #3 - CAP					
CLASS "A" CONCRETE TOTAL						CLASS "A" CONCRETE TOTAL					
3'-0" Ø DRILLED PIERS						3'-0" Ø DRILLED PIERS					
POUR #1 - DRILLED PIERS						POUR #1 - DRILLED PIERS					
C.Y. 14.1						C.Y. 9.0					

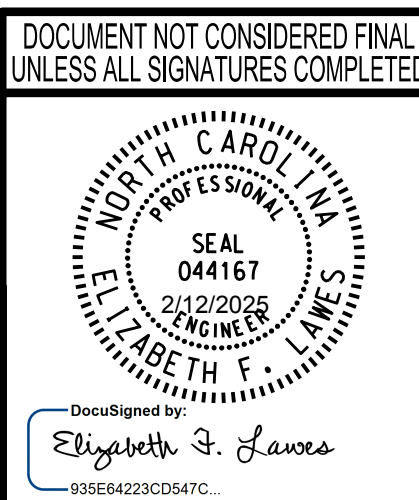
PROJECT NO. **BR-0100**
RUTHERFORD COUNTY
STATION: **18+28.00 -L-**

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

**BENTS 1 & 2
DETAILS AND
BILL OF MATERIAL**



WSP USA Inc.
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
LICENSE NO. F-0165

REVISIONS				SHEET NO.
NO.	BY:	DATE:		
1				S-27
2				

TOTAL SHEETS
30